Aim:

Write java program that inputs 5 numbers, each between 10 and 100 inclusive. As each number is read display it only if it's not a duplicate of any number already read. Display the complete set of unique values input after the user enters new values

Source Code:

Duplicate.java

```java
import java.util.*;
class Duplicate{
    public static void main(String [] args){
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter 5 unique values between 10 & 100 ");
        int arr[] = {0,0,0,0,0};
        for(int i=0;i<5;i++){
            int a1 = sc.nextInt();
            if(a1>=10 && a1<=100){
                int k=0;
                for(int j=0;j<5;j++){
                    if(a1==arr[j]){
                        System.out.println("Duplicate value found, retry");
                        k++;
                        i--;
                        break;
                    }
                }
                if(k==0){
                    arr[i]=a1;
                }
            }
            else{
                System.out.println("Entered value must be in between 10 & 100");
                i--;
            }
        }
        System.out.print("The five unique values are :");
        for(int v : arr){
            System.out.print(v+" ");
        }
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter 5 unique values between 10 & 100 25
15
30
0

Entered value must be in between 10 & 100 34
89
The five unique values are :25 15 30 34 89

Test Case - 2
User Output
Enter 5 unique values between 10 & 100 48
92
34
92
Duplicate value found, retry 39
23
The five unique values are :48 92 34 39 23